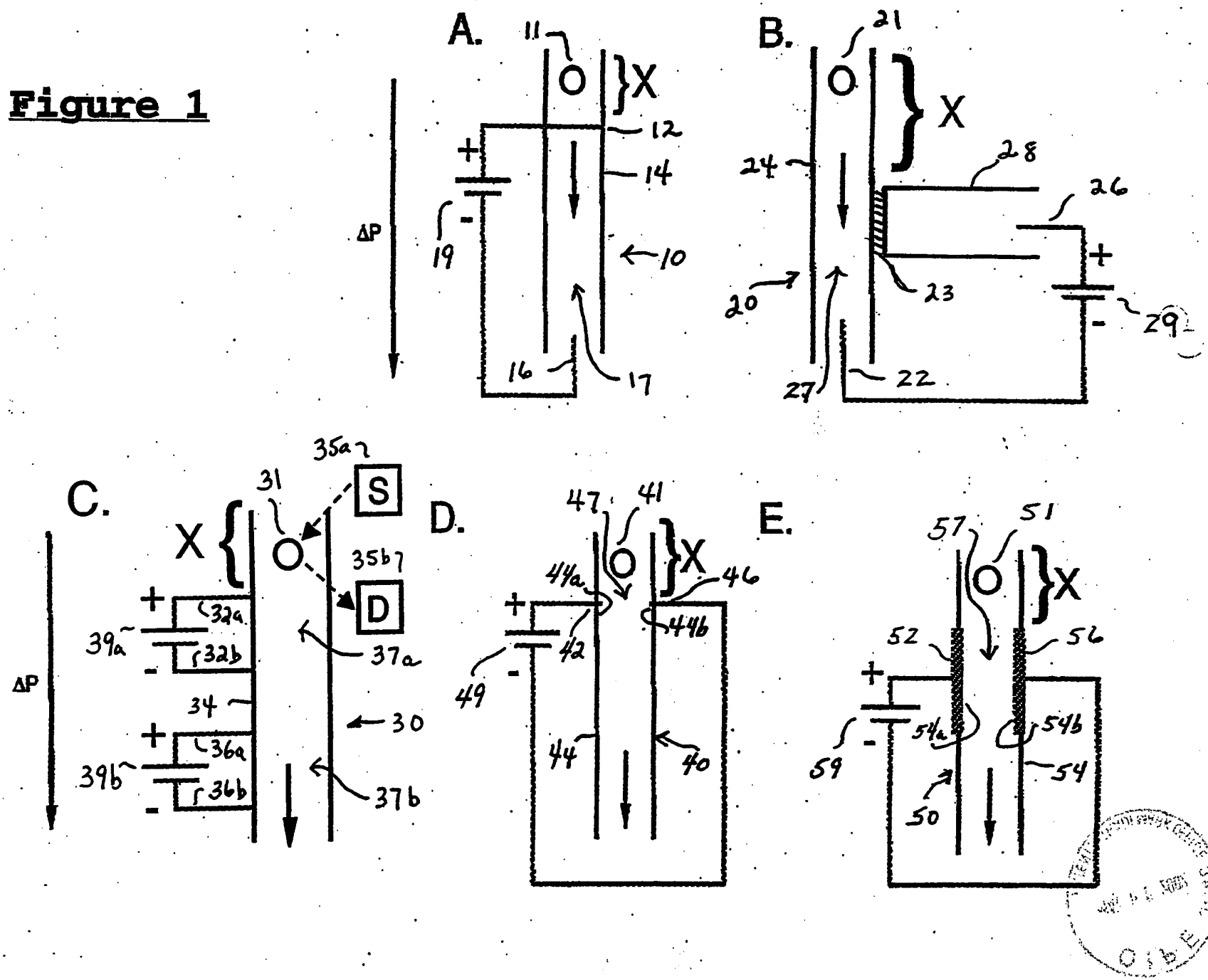
Figure 1


A.
11
O
X
12
14
10
+
-
19
ΔP
16
17
B.
21
O
X
24
28
26
+
-
29
23
20
27
22
C.
35a
31
S
X
O
35b
D
+
32a
39a
32b
-
37a
34
30
+
36a
39b
36b
-
37b
ΔP
D.
47
41
O
X
44a
46
+
42
44b
49
-
44
40
E.
57
51
O
X
52
56
+
54a
54b
59
-
54
50

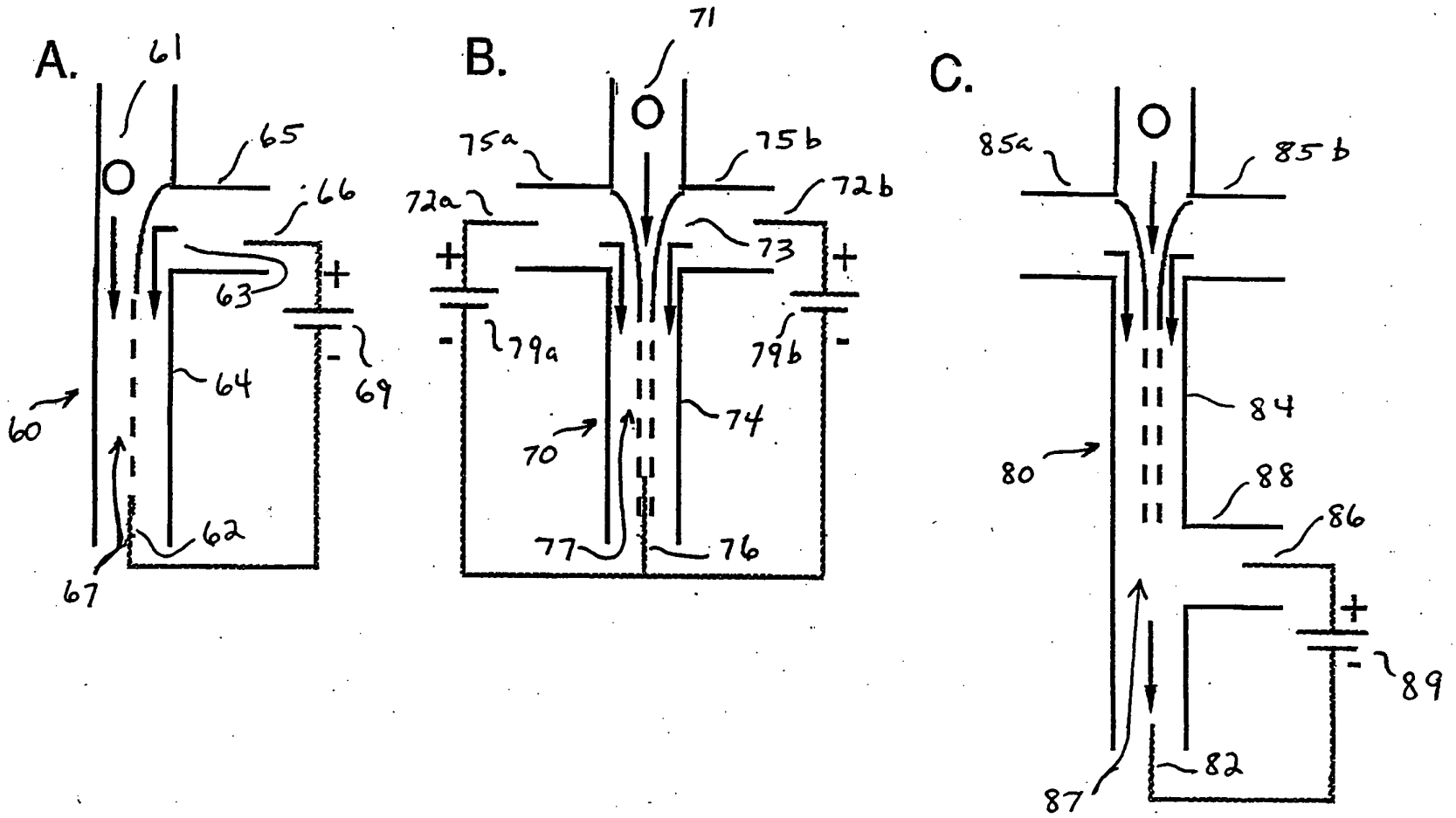

A.
61
65
66
63
64
69
60
62
67
B.
71
75a
75b
72a
72b
73
79a
79b
70
74
77
76
C.
85a
85b
84
80
88
86
89
87
82

Figure 2

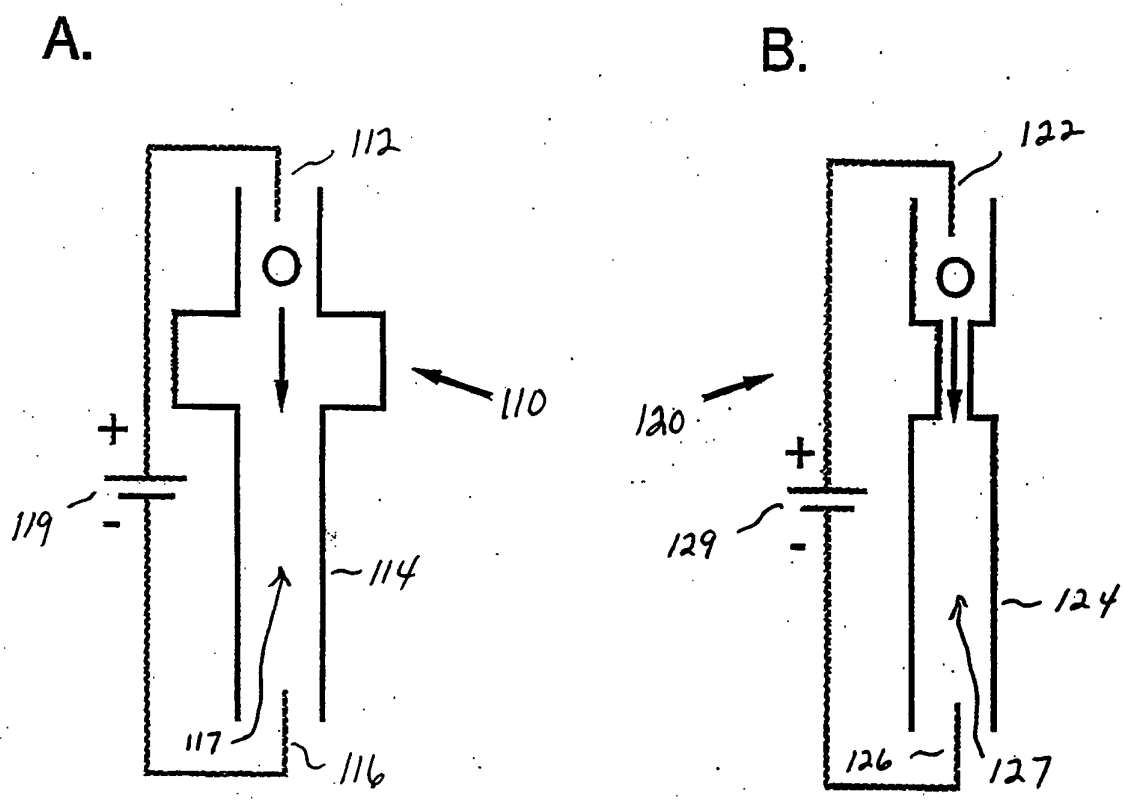


Figure 3

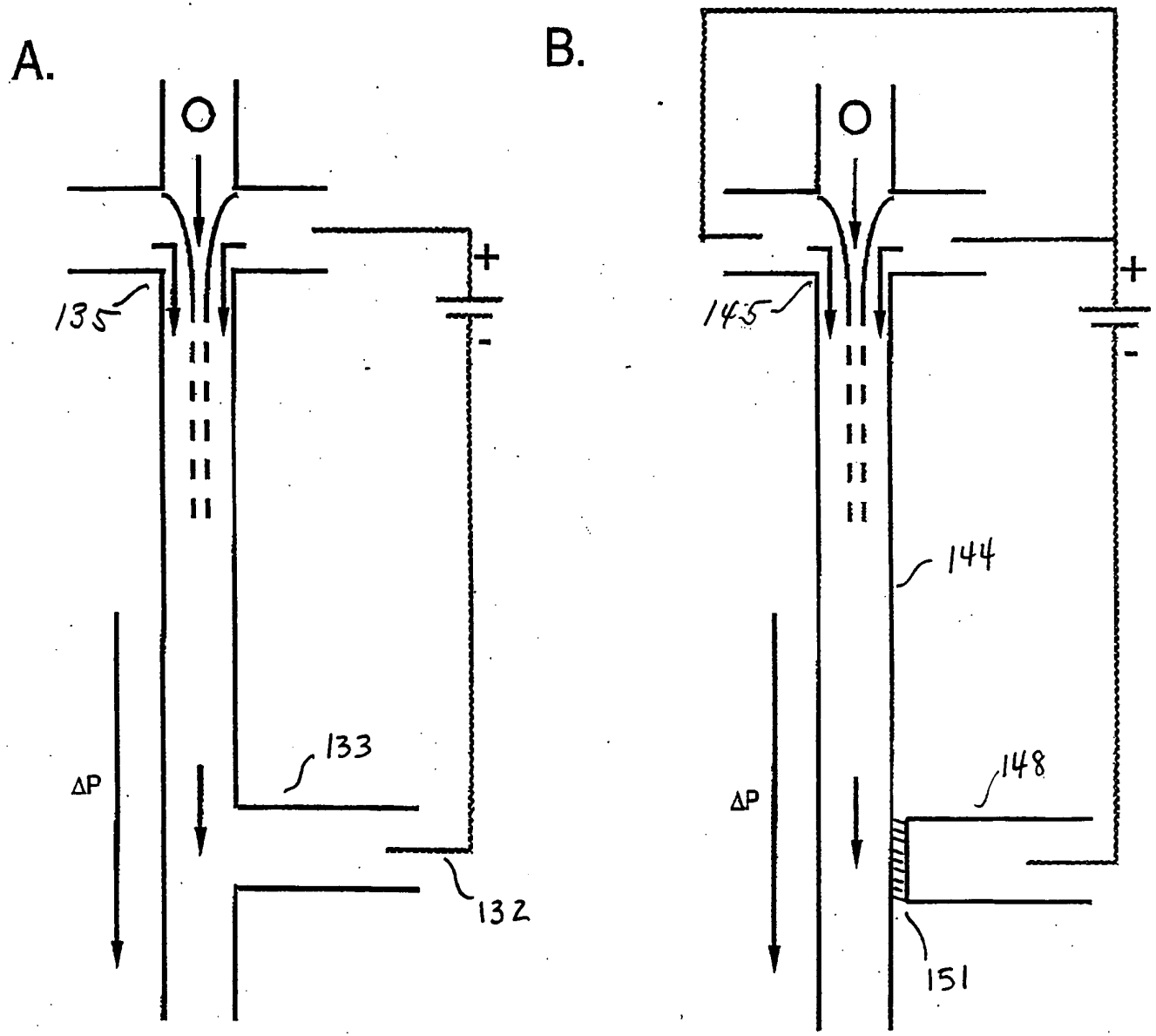
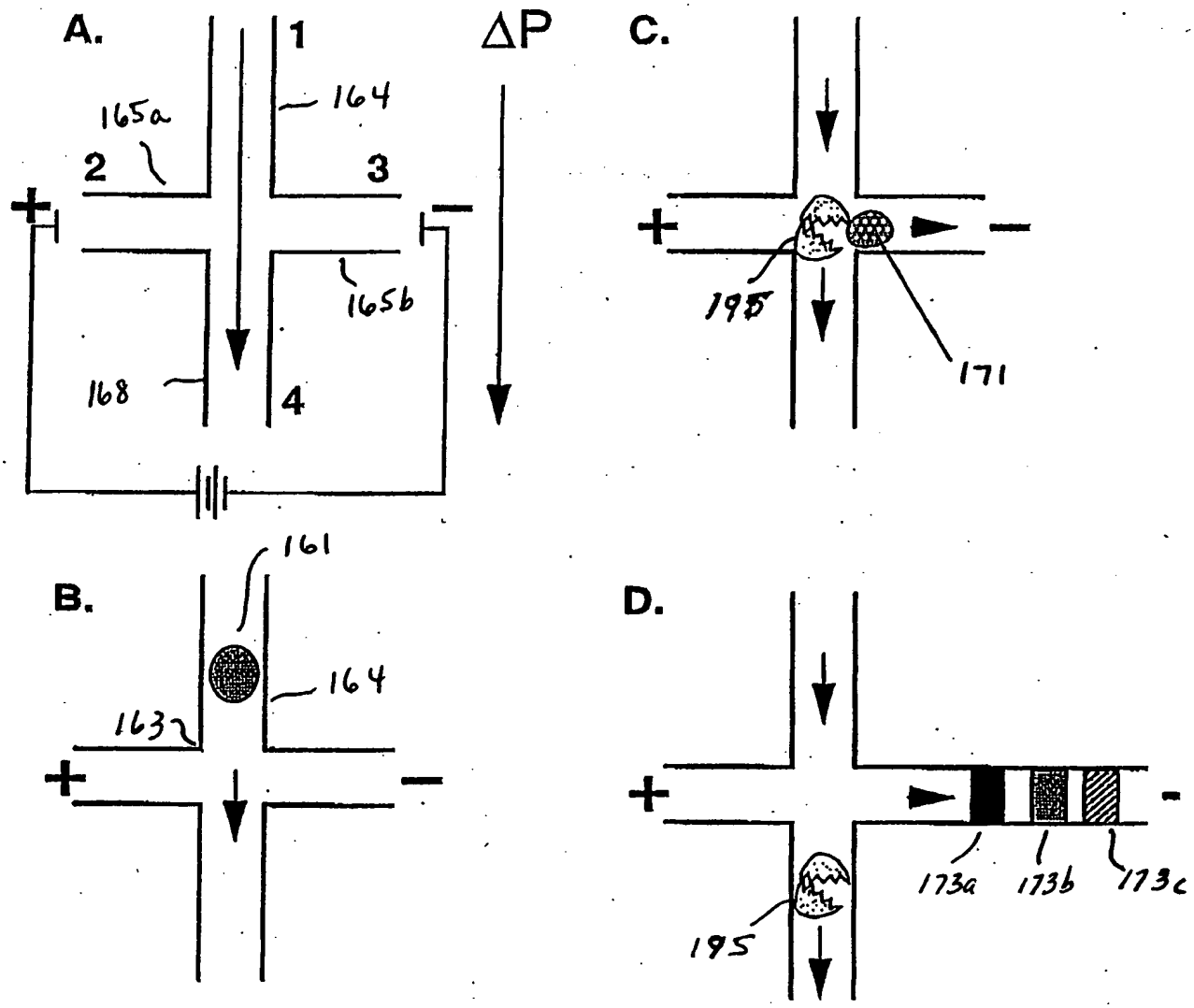


Figure 4

Figure 5


A.
1
ΔP
165a
164
2
3
165b
168
4
C.
195
171
B.
161
164
163
D.
173a
173b
173c
195

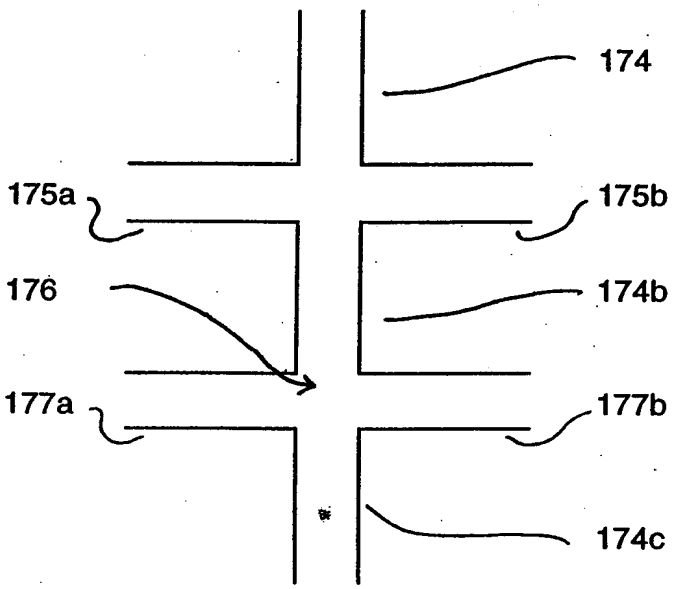


Figure 6

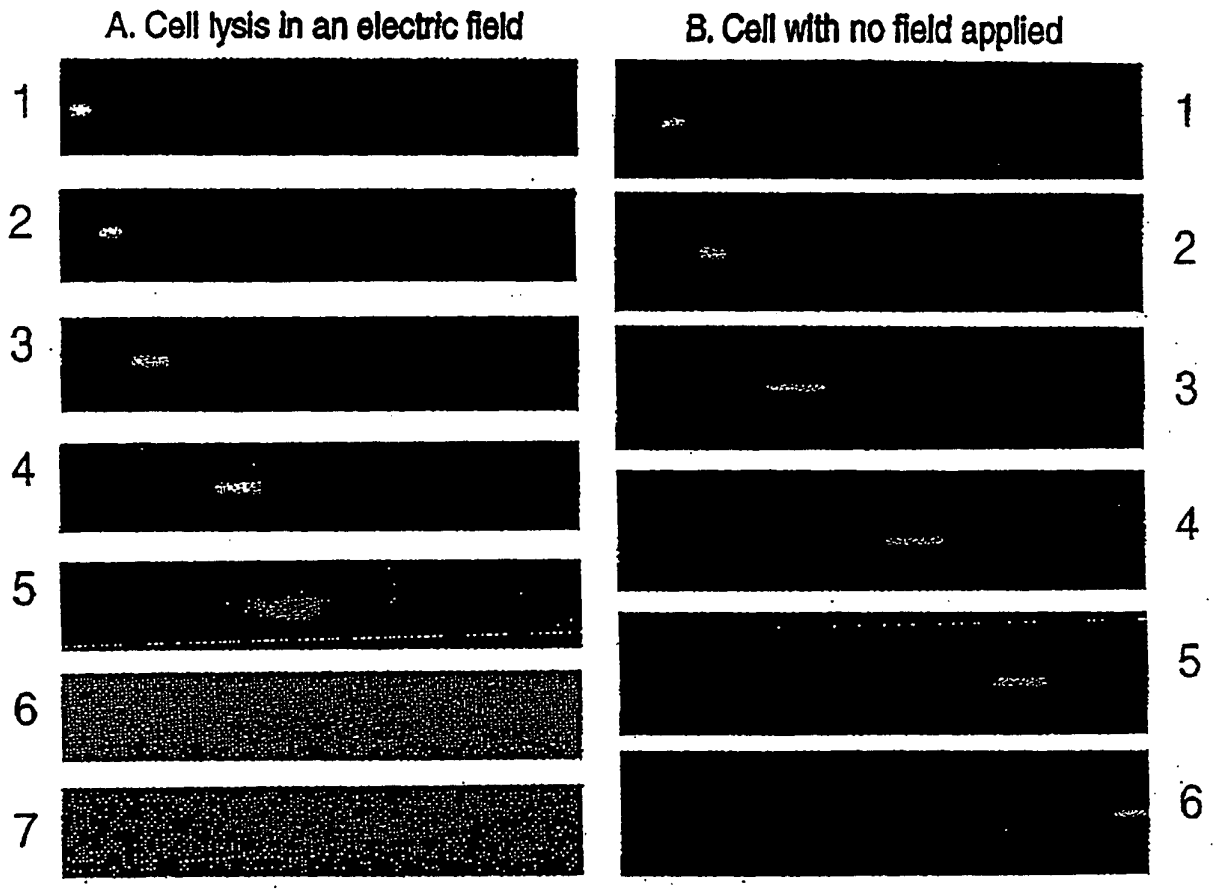

A. Cell lysis in an electric field
B. Cell with no field applied
1
2
3
4
5
6
7
1
2
3
4
5
6

Figure 7

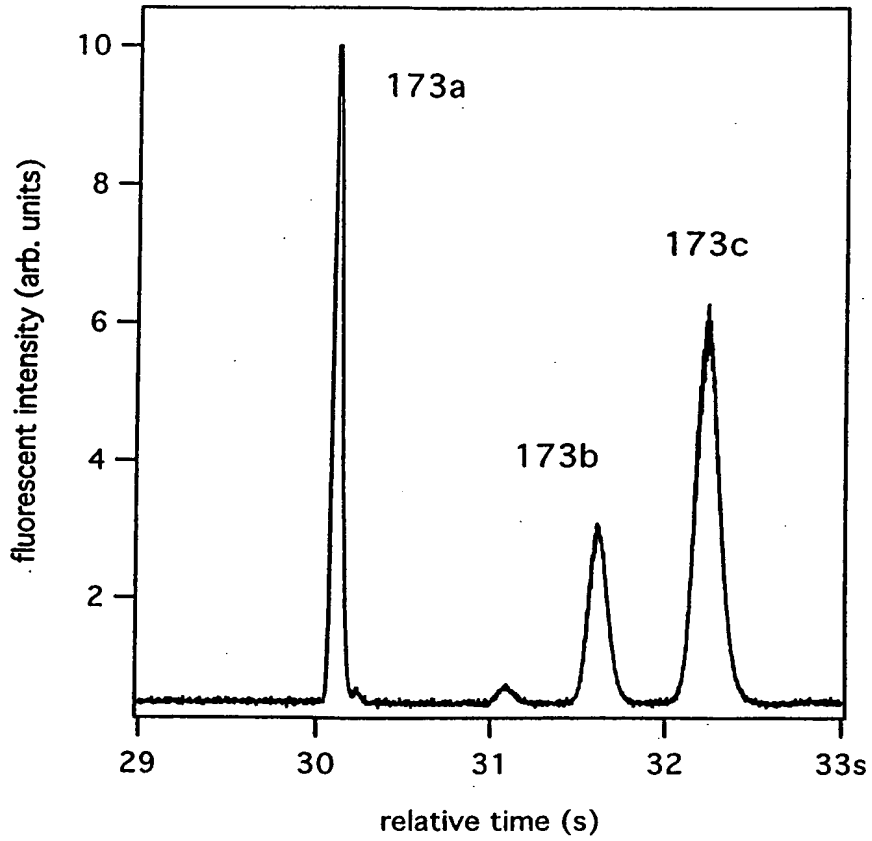

10
8
6
4
2
fluorescent intensity (arb. units)
173a
173b
173c
29
30
31
32
33s
relative time (s)

Figure 8